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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,642	11/24/2003	Ying Tat Leung	YOR920030362US1	1196
63203	7590	10/25/2010	EXAMINER	
ROGITZ & ASSOCIATES			TRAN, TUYETLENT	
750 B STREET			ART UNIT	
SUITE 3120			PAPER NUMBER	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/718,642

**Applicant(s)**

LEUNG ET AL.

**Examiner**

TUYETLIEN T. TRAN

**Art Unit**

2179

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 August 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2,4-6,8-10,12-14 and 16-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-6,8-10,12-14 and 16-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB-08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ ~~Notice of Informal Patent Application~~
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. This action is responsive to the following communication: Amendment filed 08/25/2010.

**This action is made final.**

2. Claims 1-2, 4-6, 8-10, 12-14, 16-21 are pending in the case. Claims 1 and 8 are independent claim.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. **Claims 1-2, 4-6 are rejected under 35 U.S.C 102(b) as being anticipated by Borgward (WO 01/73673 A2; published on 10/04/01 – note: US 2004/0049743 is used as the English translation; hereinafter Borgward).**

**As to claim 1, Borgward teaches:**

A portable computing device (e.g., see Fig. 1 and [0009]; a universal digital mobile device) comprising:

a display (e.g., see Figs. 1, 2, 18 and [0156], [0190]; main display part 1010); and

a touch-sensitive display which is secondary and attachable to the display (e.g., see Figs. 1, 2, 18 and [0012], [0163], [0190]; the main operator control part 1020),

wherein said display and said touch-sensitive display present two adjoining display portions of a single display output at a first time (e.g., see Fig. 52D and [0256]; where reading material is displayed on both leaves) and only the display but not the touch-sensitive display

present the two adjoining display portions of the single display output at a second time (e.g., see Figs. 1b, 7, 52b, 103 (part 7) and [0159]; where reading material is displayed only in the main display part 1010).

**As to claim 2**, Bogward teaches the touch-sensitive display is rotatably attachable to the display (e.g., see Figs. 7, 103 and [0156], [0190], [0263]; two leaves are connected to each other).

**As to claim 4**, Bogward teaches said touch-sensitive display displays a user-interface that overlays a portion of said single display output (e.g., see Figs. 103(part 1); keyboard on rear side of book).

**As to claim 5**, Bogward teaches the user-interface comprises a pointing device (e.g., see Fig. 117a and [0012]; pressure pen).

**As to claim 6**, Bogward teaches the user-interface is reconfigurable in accordance with an instruction from a software application being executed on the portable computing device (e.g., see Figs. 48, 52b-d, 53 and [0062], [0170], [0205] and [0253-0262]; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use).

6. **Claims 1-2, 4-6 are rejected under 35 U.S.C 102(b) as being anticipated by Borgward (WO 01/73673 A2; published on 10/04/01 – note: the attached English translation).**

**As to claim 1**, Bogward teaches:

A portable computing device (e.g., see Fig. 1 and page 4, lines 9-12; a universal digital mobile device) comprising:

a display (e.g., see Figs. 1, 2, 18 and page 19, lines 3-14; page 27, lines 22-37; main display part 1010); and

a touch-sensitive display which is secondary and attachable to the display (e.g., see Figs. 1, 2, 18 and page 4, lines 18-27, page 20, lines 13-40; page 27, lines 22-37; the main operator control part 1020),

wherein said display and said touch-sensitive display present two adjoining display portions of a single display output at a first time (e.g., see Fig. 52D and page 40 paragraph 4; where reading material is displayed on both leaves) and only the display but not the touch-sensitive display present the two adjoining display portions of the single display output at a second time (e.g., see Figs. 1b, 7, 52b, 103 (part 7) and page 20; lines 26-32; where reading material is displayed only in the main display part 1010).

**As to claim 2**, Bogward teaches the touch-sensitive display is rotatably attachable to the display (e.g., see Figs. 7, 103 and page 19, lines 3-14; page 27, lines 22-37; page 41, paragraph 5; two leaves are connected to each other).

**As to claim 4**, Bogward teaches said touch-sensitive display displays a user-interface that overlays a portion of said single display output (e.g., see Figs. 103(part 1); keyboard on rear side of book).

**As to claim 5**, Bogward teaches the user-interface comprises a pointing device (e.g., see Fig. 117a and page 4, lines 18-27; pressure pen).

**As to claim 6**, Bogward teaches the user-interface is reconfigurable in accordance with an instruction from a software application being executed on the portable computing device (e.g., see Figs. 48, 52b-d, 53 and page 9, last paragraph through page 10, first paragraph; page 22, paragraph 5 through page 23, first paragraph; page 31, paragraph 6; page 39, paragraph 9 through page 41, paragraph 5; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use).

#### **Claim Rejections - 35 USC § 103**

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. **Claims 8-10, 12-14, 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bogward in view of O'Leary et al. (US 20030117425 A1; hereinafter O'Leary).**

**As to claim 8, Bogward teaches:**

A method of driving a portable computing device having a display attachable to a touch-sensitive display that is secondary and attachable to the display (e.g., see Fig. 1 and [0009]; a universal digital mobile device), the method comprising:

displaying a first of two adjoining display portions of a single display output in one of said display and said touch-sensitive display (e.g., see Fig. 52D and [0256]; where reading material is displayed on both leaves);

displaying a second of said two adjoining display portions of said single display output in the other of said display and said touch-sensitive display (e.g., see Fig. 52D and [0256]; where reading material is displayed on both leaves);

wherein said display and said touch sensitive display display said two adjoining display portions as a single display output (e.g., see Fig. 52D and [0256]; where reading material is displayed on both leaves).

While Bogward suggests that the reading material can be books, documents, notes, personal calendar, internet and more (e.g., see Fig. 1A), Bogward does not expressly disclose that the single display output is selected from the group of outputs including a computer drawing, a spreadsheet.

In the same field of ebook display, O'Leary teaches a display device configured to display documents containing computer drawing (e.g., see Fig. 2 and [0002]; printed documents).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have modified the universal digital mobile device of Bogward to include the printed documents containing computer drawing to achieve the claim limitation. One would

be motivated to make such a combination is to allow the user to view any printed material that contained drawings (e.g., see Fig. 2 of O'Leary).

**As to claim 9**, Bogward teaches the display is rotatably attachable to the touch-sensitive display (e.g., see Figs. 7, 103 and [0156], [0190], [0263]; two leaves are connected to each other).

**As to claim 10**, Bogward teaches said touch-sensitive display further comprises displaying a user-interface comprising a keyboard (e.g., see Fig. 117b and [0402]; virtual keyboard).

**As to claim 12**, Bogward teaches reconfiguring the user-interface in response to an application state (e.g., see Figs. 48, 52b-d, 53 and [0062], [0170], [0205] and [0253-0262]; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use).

**As to claim 13**, Bogward teaches wherein reconfiguring the user- interface comprises reconfiguring the user-interface in response to a user preference (e.g., see Figs. 48, 52b-d, 53 and [0062], [0170], [0205] and [0253-0262]; where interface is reconfigurable depending on settings, configurations, user preference of right/hand left hand modes, state of use).

**As to claim 14**, Bogward teaches wherein reconfiguring the user- interface comprises reconfiguring the user-interface in response to a user instruction (e.g., see Figs. 48, 52b-d, 53 and [0062], [0170], [0205] and [0253-0262]; where interface is reconfigurable depending on settings, configurations, user preference of right/hand left hand modes, state of use).



**As to claim 16**, Bogward teaches displaying a hot key that triggers the execution of a plurality of instructions in accordance with a state of the portable computing device (e.g., see Fig. 1A and [0164], [0179]; multifunction keys).

**As to claim 17**, Bogward teaches displaying an application result (e.g., see Fig. 1A and [0164], [0179]; multifunction keys serves to manipulate information displayed on the main displayed part).

**As to claim 18**, Bogward teaches displaying an application result comprises displaying a first page of an electronic book on one of the display and the touch-sensitive display (e.g., see Fig. 1A, 52b and [0164], [0256]; "Book" display function).

**As to claim 19**, Bogward teaches the displaying of the application result further comprises displaying a second page of an electronic book on the other one of the display and the touch-sensitive display (e.g., see Fig. 52D and [0256]; where reading material is displayed on both leaves).

8. **Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bogward in view of O'Leary further in view of Zak et al. (US 20020004729 A1; hereinafter Zak).**

**As to claim 20**, Bogward teaches the rejection of claim 8 for the same reasons as set forth above. Bogward further teaches displaying menu on the touch-sensitive display (e.g., see Figs. 8A-E and [0019]). Bogward and O'Leary do not specifically disclose that those menus were drop-down menus.

However, in an analogous art of menu on the touch screen display, Zak disclosed using drop-down menus on touch-sensitive display screens (e.g., see [0057], [0078]).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the menu display of Bogward to include the drop down menu display as suggested by Zak to achieve the claim limitation. One would be motivated to make such a combination is to reserve display space since drop down menu use less space than regular menu.

**8. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bogward in view of O'Leary further in view of Retter (USPN 5825362; hereinafter Retter).**

As to claim 21, Bogward teaches the rejection of claim 10 for the same reasons as set forth above. Bogward and O'Leary do not specifically disclose that displaying a color-coded keyboard.

However, Retter discloses a user-interface with a color-coded keyboard (Column 8, lines 34-53; Figure 7). Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the virtual keyboard of Bogward and O'Leary to incorporate color-coding keyboard of Retter to achieve the claim limitation since using a color-coded keyboard would allow users to more easily discern keys and makes a keyboard more user-friendly.

**8. Claims 8-10, 12-14, 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bogward (see English Translation) in view of O'Leary et al. (US 20030117425 A1; hereinafter O'Leary).**

As to claim 8, Bogward teaches:

A method of driving a portable computing device having a display attachable to a touch-sensitive display that is secondary and attachable to the display (e.g., see Fig. 1 and page 4, lines 9-12; a universal digital mobile device), the method comprising:

displaying a first of two adjoining display portions of a single display output in one of said display and said touch-sensitive display (e.g., see Fig. 52D and page 40 paragraph 4; where reading material is displayed on both leaves);

displaying a second of said two adjoining display portions of said single display output in the other of said display and said touch-sensitive display (e.g., see Fig. 52D and page 40 paragraph 4; where reading material is displayed on both leaves);

wherein said display and said touch sensitive display display said two adjoining display portions as a single display output (e.g., see Fig. 52D and page 40 paragraph 4; where reading material is displayed on both leaves).

While Bogward suggests that the reading material can be books, documents, notes, personal calendar, internet and more (e.g., see Fig. 1A), Bogward does not expressly disclose that the single display output is selected from the group of outputs including a computer drawing, a spreadsheet.

In the same field of ebook display, O'Leary teaches a display device configured to display documents containing computer drawing (e.g., see Fig. 2 and [0002]; printed documents).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have modified the universal digital mobile device of Bogward to include the printed documents containing computer drawing to achieve the claim limitation. One would be motivated to make such a combination is to allow the user to view any printed material that contained drawings (e.g., see Fig. 2 of O'Leary).

**As to claim 9**, Bogward teaches the display is rotatably attachable to the touch-sensitive display (e.g., see Figs. 7, 103 and page 19, lines 3-14; page 27, lines 22-37; page 41, paragraph 5; two leaves are connected to each other).

**As to claim 10**, Bogward teaches said touch-sensitive display further comprises displaying a user-interface comprising a keyboard (e.g., see Fig. 117b and page 67, paragraph 2; virtual keyboard).

**As to claim 12**, Bogward teaches reconfiguring the user-interface in response to an application state (e.g., see Figs. 48, 52b-d, 53 and [0062], [0170], [0205] and [0253-0262]; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use).

**As to claim 13**, Bogward teaches wherein reconfiguring the user- interface comprises reconfiguring the user-interface in response to a user preference (e.g., see Figs. 48, 52b-d, 53 and page 9, last paragraph through page 10, first paragraph; page 22, paragraph 5 through page 23, first paragraph; page 31, paragraph 6; page 39, paragraph 9 through page 41, paragraph 5; where interface is reconfigurable depending on settings, configurations, user preference of right/hand left hand modes, state of use).

**As to claim 14**, Bogward teaches wherein reconfiguring the user- interface comprises reconfiguring the user-interface in response to a user instruction (e.g., see Figs. 48, 52b-d, 53 and page 9, last paragraph through page 10, first paragraph; page 22, paragraph 5 through page 23, first paragraph; page 31, paragraph 6; page 39, paragraph 9 through page 41, paragraph 5; where interface is reconfigurable depending on settings, configurations, user preference of right/hand left hand modes, state of use).

**As to claim 16**, Bogward teaches displaying a hot key that triggers the execution of a plurality of instructions in accordance with a state of the portable computing device (e.g., see Fig. 1A and page 20, paragraph 5 through page 21, first paragraph; page 26, second paragraph; multifunction keys).

**As to claim 17**, Bogward teaches displaying an application result (e.g., see Fig. 1A and page 20, paragraph 5 through page 21, first paragraph; page 26, second paragraph; multifunction keys serves to manipulate information displayed on the main displayed part).

**As to claim 18**, Bogward teaches displaying an application result comprises displaying a first page of an electronic book on one of the display and the touch-sensitive display (e.g., see Fig. 1A, 52b and page 20, paragraph 5 through page 21, first paragraph; page 40 paragraph 4; "Book" display function).

**As to claim 19**, Bogward teaches the displaying of the application result further comprises displaying a second page of an electronic book on the other one of the display and the touch-sensitive display (e.g., see Fig. 52D and page 40, paragraph 4; where reading material is displayed on both leaves).

8. **Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bogward (see English Translation) in view of O'Leary further in view of Zak et al. (US 20020004729 A1; hereinafter Zak).**

**As to claim 20**, Bogward teaches the rejection of claim 8 for the same reasons as set forth above. Bogward further teaches displaying menu on the touch-sensitive display (e.g., see

Figs. 8A-E and page 5, paragraph 4). Bogward and O'Leary do not specifically disclose that those menus were drop-down menus.

However, in an analogous art of menu on the touch screen display, Zak disclosed using drop-down menus on touch-sensitive display screens (e.g., see [0057], [0078]).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the menu display of Bogward to include the drop down menu display as suggested by Zak to achieve the claim limitation. One would be motivated to make such a combination is to reserve display space since drop down menu use less space than regular menu.

**8. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bogward (see English Translation) in view of O'Leary further in view of Retter (USPN 5825362; hereinafter Retter).**

**As to claim 21,** Bogward teaches the rejection of claim 10 for the same reasons as set forth above. Bogward and O'Leary do not specifically disclose that displaying a color-coded keyboard.

However, Retter discloses a user-interface with a color-coded keyboard (Column 8, lines 34-53; Figure 7). Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the virtual keyboard of Bogward and O'Leary to incorporate color-coding keyboard of Retter to achieve the claim limitation since using a color-coded keyboard would allow users to more easily discern keys and makes a keyboard more user-friendly.

### **Response to Arguments**

3. Applicant's arguments filed on 08/25/2010 have been considered but are not persuasive.

Applicant argues that the USPN 20040049743 is not qualified as English Equivalence to the published document WO 01/73673 (e.g., see remark page 2).

In response, the examiner respectfully disagrees and notes that both references (USPN 20040049743 and WO 01/73673) are directed to the same PCT application (PCT/EP01/03738). Moreover, the USPN 20040049743 is a 371 of PCT/EP01/03738 and in order to meet the 35 U.S.C. 371(c), a translation into English of the international application is required if it was filed in another language. see 35 U.S.C. 371c (1) c(2) and c(4).

However, in the interest of compact prosecution, a certified translation of the published document WO 01/73673 is provided as attached and the mapping of the claims with the certified translation is also provided as set forth in the rejection above. Same ground of rejection is maintained.

### **Conclusion**

**THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

It is noted that any citation to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. In re Heck, 699 F.2d 1331, 1332-33, 216 USPQ 1038, 1039 (Fed. Cir. 1983) (quoting In re Lemelson, 397 F.2d 1006, 1009, 158 USPQ 275, 277 (CCPA 1968)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TuyetLien (Lien) T. Tran whose telephone number is 571-270-1033. The examiner can normally be reached on Mon-Friday: 7:30 - 5:00 (every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TuyetLien T Tran/  
Examiner, Art Unit 2179

/Weilun Lo/  
Supervisory Patent Examiner, Art Unit 2179